

# ABSTRACT

Disclosed is an image interpolation method and apparatus thereof. The present invention includes the steps of searching an edge direction to be used for interpolation by a pixel matching using input pixels and generating a pixel to be substantially interpolated by referring to pixels located on the searched edge direction. The present invention includes the steps of carrying out a first interpolation on input pixels using linear interpolation and finding weighted value coefficients in accordance with a relationship between the first interpolated pixel and the adjacent input pixels to be used for interpolation and preparing a pixel to be substantially interpolated by adaptive weighted interpolation applying the found weighted value coefficient to the adjacent input pixels. Accordingly, the present invention minimizes the blurring and is free of geometrical distortion.